

Specifications: Dell™ M782 Color Monitor User's Guide

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General

Model number	M782
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CRT(17")

Screen dimensions

Preset Image Size (This is the Dell recommended viewing image)	Diagonal 15.35 inches(390mm) Horizontal 12.28 ± 0.16 inches(312 ± 4 mm) Vertical 9.20 ± 0.16 inches(234 ± 4 mm)
Viewable Image Size (VIS) (This is the maximum viewable image)	Diagonal 16.00 inches(406 mm) Max Horizontal 12.80 inches(325 mm) Vertical 9.61 inches(244 mm)
Dot Pitch	0.25 mm
Deflection angle	90°
Phosphor type	Medium-short persistence phosphor
Faceplate coating	Anti-reflection coating with anti-static properties

Resolution

Horizontal scan range	30 kHz to 85 kHz (automatic)
Vertical scan range	50 Hz to 160 Hz (automatic)
Optimal preset resolution	1024 x 768 at 85 Hz
Highest preset resolution	1280 x 1024 at 75 Hz
Highest addressable resolution Dell does not guarantee image performance on non-preset video modes.	1600 x 1200 at 65 Hz

Dell guarantees image size and centering for all preset modes listed in the following table.

Preset Display Modes

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (Horizontal / Vertical)
IBM [®] , VGA2, 720 x 400	31.469	70.087	28.322	-/+
IBM, VGA3, 640 x 480	31.469	59.940	25.175	-/-
VESA [®] , 640 x 480	37.50	75.00	31.50	-/-
VESA, 640 x 480	43.269	85.08	36.000	-/-
VESA, 800 x 600	46.90	75.00	49.50	+/+
VESA, 800 x 600	53.674	85.061	56.250	+/+
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1024 x 768	68.677	84.997	94.500	+/+
VESA, 1280 x 1024	80.00	75.00	135.00	+/+

Electrical

Video input signals	analog, 0.7 Vpp, positive at 75 ohm
Synchronization input signals	Separate horizontal and vertical; TTL level, positive or negative
AC input voltage / frequency / current	90 to 240 VAC / 50 or 60 Hz \pm 3 Hz / 1.4 A (RMS) at 120 VAC and 0.8 A (RMS) at 220 VAC
Inrush current at 120 V	20 A
Inrush current at 240 V	35 A

Physical Characteristics

Connector type	15-pin D-subminiature
Signal cable type	attached to monitor
Dimensions:	
Height (with base)	15.5 inch (394.75 mm)
Height (without base)	13.7 inch (349.18 mm)

Width	15.7 inch (398.0 mm)
Depth	16.7 inch (424.0 mm)
Weight (monitor only)	35.5 lb (16.15 kg)
Weight (with packaging)	41.0 lb (18.65 kg)

Environmental

Temperature:

Operating	0 ° to 40 °C (32 ° to 104 °F)
Non-operating	-20 ° to 60 °C (-4 ° to 140 °F)

Humidity:

Operating	20% to 80% (noncondensing)
Non-operating	5% to 95% (noncondensing)

Altitude:

Operating	3,000 m (10,000 ft)
Non-operating	15,000 m (50,000 ft)

Thermal dissipation	341 BTU/hour (maximum) 290 BTU/hour (typical)
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Power Management Modes

If you have VESA's DPMS compliance display card or software installed in your PC, the monitor can automatically reduce its power consumption when not in use. If input from keyboard, mouse or other input devices is detected by the computer, it will automatically "wake up" the monitor. The following table shows the power consumption and signaling of this automatic power saving feature:

Power Management Definition						
VESA's Mode	Video	H-sync	V-sync	Power Used	Power Saving (%)	LED color
ON	Active	Yes	Yes	Max 100W Typical 85W	0 %	Green
Active-OFF *	Blanked	No	No	Less than 3W	95 %	Green blinking
OFF				Less than 1.0W		

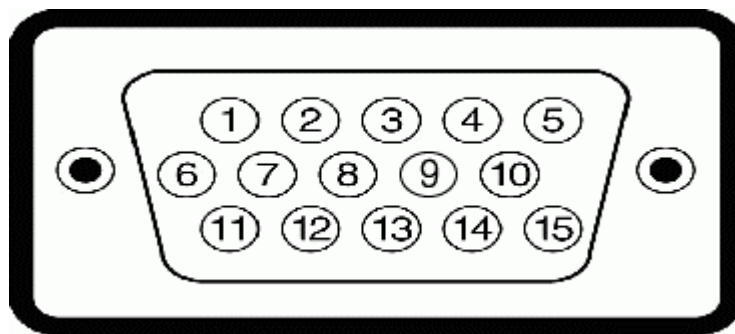
This monitor is ENERGY STAR® compliant as well as TCO '99 and MPR II power management compatible.



* Zero power consumption in OFF mode can only be achieved by disconnecting the main cable from the monitor.

ENERGY STAR® is a U.S. registered mark. As an ENERGY STAR® Partner, DELL has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Pin Assignments



Pin Number	15-Pin Side of the Signal Cable
1	Video-Red
2	Video-Green
3	Video-Blue
4	GND
5	DDC-return
6	GND-R
7	GND-G
8	GND-B
9	DDC + 5V
10	GND-sync/self-test
11	GND
12	DDC data
13	H-sync

14	V-sync
15	DDC clock

Plug and Play Capability

You can install the monitor in any Plug and Play-compatible system. The monitor automatically provides the computer system with its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols so the system can configure itself and optimize the monitor settings. If desired, the user can select different settings, but in most cases monitor installation is automatic.

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